

# Hidden in Plain Sight

Evidence of Exotic UFO Propulsion

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To Tracey, my dear sweet wife.

Thank you for the patience you have  
shown me through the work of this book

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# FORWARD

## Reevaluating Arthur C. Clarke's Quotes in the Context of UAP Phenomenon

Arthur C. Clarke (1917 – 2008 Author of 2001: A Space Odyssey), was a luminary in the realm of science fiction and futurism. Clarke gifted the world with numerous thought-provoking quotes, and his insights often bordered on the prophetic; encapsulating complex ideas in simple yet profound words. One such quote that has resonated through the ages is, "Any sufficiently advanced technology is indistinguishable from magic." This statement beautifully captures the awe and wonder that technological advancements can evoke, often blurring the lines between what is possible and what is perceived as miraculous.

However, Clarke's second, more famous quote, "Either we are alone in the Universe, or we are not. Both are equally terrifying," while equally profound, demands reevaluation in the light of contemporary understanding of the Unidentified Anomalous Phenomenon (UAP). This phenomenon, often shrouded in mystery and speculation, has seen a resurgence in both public interest and scientific scrutiny. The advancements in our observational technologies and the increasing number of credible sightings have brought new dimensions to our understanding of the cosmos and our place within it.

### **i. The Magic of Technology**

To truly appreciate Clarke's assertion about technology, one must consider the historical context. Throughout history, technological breakthroughs have often seemed magical to those unacquainted with the underlying principles. For instance, the invention of electricity, the telephone, and the Internet each revolutionized human society, transforming seemingly impossible feats into everyday realities. Clarke's quote underscores the idea that the boundary between magic



and technology is not fixed but rather a function of our knowledge and understanding.

In the realm of UAPs, this perspective becomes particularly pertinent. The rapid advancements in aerospace technology, coupled with sophisticated radar and imaging systems, have enabled us to detect and analyze objects and phenomena that were previously beyond our reach. What once might have been dismissed as mere myth or illusion now demands scientific investigation.

### **UAPs: A New Frontier**

The term Unidentified Anomalous Phenomenon (UAP) has largely replaced the more colloquial "UFO" (Unidentified Flying Object), reflecting a shift toward a more serious and scientific approach to these sightings. In 2023 the US Military changed the term UAP from Unidentified Aerial Phenomena to Unidentified Anomalous Phenomena to reflect any perceived Airbourne, submerged or transmedium phenomena. Reports of UAPs have been documented for decades, but recent revelations have sparked renewed interest and debate. The Pentagon's release of declassified videos and reports, coupled with testimonies from credible witnesses such as military pilots, have lent credence to the notion that UAPs are worthy of rigorous scientific inquiry.

These revelations compel us to reconsider Clarke's famous quote about our solitude or company in the universe. The dichotomy he presents—being alone or not—suggests a binary understanding that may not fully capture the nuances of contemporary thought on extraterrestrial life and UAPs.

### **The Terrifying Dichotomy**

Clarke's quote, "Either we are alone in the Universe or we are not. Both are equally terrifying," captures the existential dread that both possibilities evoke. The idea of being the only intelligent life in an

immense, seemingly indifferent universe can be profoundly isolating. Conversely, the prospect of other intelligent beings—potentially far more advanced—poses its own set of fears and uncertainties.

Yet, in light of the UAP phenomenon, this dichotomy may be overly simplistic. The increasing number of credible UAP sightings suggests that the universe may be more complex and populated than Clarke's binary framework allows. These phenomena challenge our conventional understanding of physics and aerodynamics, hinting at the possibility of technologies far beyond our current capabilities.

### **Expanding the Dialogue**

The current discourse surrounding UAPs encourages us to move beyond the binary thinking that Clarke's quote implies. It invites us to entertain a spectrum of possibilities that lie between the extremes of complete solitude and the existence of advanced extraterrestrial civilizations. For instance, UAPs could represent:

- Advanced human technologies that are not yet public knowledge.
- Natural phenomena that we do not yet fully understand.
- Interdimensional entities or visitors from parallel universes.
- Extraterrestrial probes or drones exploring our planet.

Each of these scenarios presents its own set of challenges and opportunities for scientific exploration and philosophical reflection. By considering a broader range of possibilities, we can better prepare ourselves for the profound implications that the UAP phenomenon holds for our understanding of the universe.

### **ii. The Role of Science and Technology**

As we grapple with the mysteries of UAPs, science and technology play a crucial role in advancing our understanding. The development of

more sophisticated observational tools, such as advanced radar systems, high-resolution cameras, and satellite-based sensors, allows us to collect more detailed and reliable data on these phenomena. Furthermore, interdisciplinary collaboration among physicists, astronomers, engineers, and other experts is essential for unraveling the complexities of UAPs.

In this context, Clarke's assertion about technology being indistinguishable from magic gains new relevance. The key to demystifying UAPs lies in our ability to develop and apply advanced technologies that can reveal the underlying nature of these phenomena. As our technological capabilities continue to evolve, what once seemed magical or inexplicable may gradually become understandable.

### **An Evolving Perspective**

In conclusion, while Arthur C. Clarke's quotes have provided profound insights into the relationship between technology, magic, and the possibility of extraterrestrial life, our understanding of the UAP phenomenon invites us to revisit and expand upon these ideas. The rapid advancements in technology and the increasing number of credible UAP sightings challenge us to move beyond binary thinking and embrace the complexity and diversity of the universe.

As we continue to explore the frontiers of science and technology, we may find that the line between magic and reality is not as clear-cut as it once seemed. By remaining open to new possibilities and committed to rigorous scientific inquiry, we can navigate the mysteries of the universe with a sense of wonder, curiosity, and humility.

### **Insights Based on Known Scientific Theories**

In this document, we will endeavor to explain the propulsion possibilities of Unidentified Anomalous Phenomena (UAPs) based on established scientific theories. Chad and Dave have extensively researched this topic and present our findings here. We invite you to draw your own conclusions, but with all the evidence available and firsthand knowledge, we assert that we are not alone.

### **iii. Theoretical Propulsion Mechanisms**

#### **Electromagnetic Propulsion**

One of the most frequently discussed propulsion mechanisms for UAPs is electromagnetic propulsion. This concept relies on the manipulation of electromagnetic fields to produce thrust without the need for conventional fuel. By generating and controlling powerful magnetic and electric fields, UAPs could theoretically achieve high speeds and rapid maneuverability. This form of propulsion would also allow for silent operation, which is consistent with numerous UAP sightings.

#### **Antigravity Propulsion**

Antigravity propulsion is another intriguing possibility. This theoretical approach involves the creation of a force that counteracts gravity, allowing an object to levitate and move without the constraints of traditional propulsion methods. While antigravity remains speculative and unproven within mainstream science, ongoing research into gravity and quantum mechanics may one day provide insights that could make such propulsion feasible.

#### **Warp Drive**

Inspired by the realm of science fiction, the concept of a warp drive involves bending or warping spacetime to enable faster-than-light travel. According to Einstein's theory of general relativity, it is theoretically possible to distort spacetime in a way that allows for rapid movement across vast distances. Though still in the realm of

theoretical physics, advancements in our understanding of spacetime and quantum fields could one day make warp drive technology a reality.

#### **iv. Interdisciplinary Collaboration**

The study of UAP propulsion requires a multidisciplinary approach, involving collaboration among physicists, engineers, astronomers, and other experts. By pooling knowledge from various fields, we can develop a more comprehensive understanding of the phenomena and explore innovative solutions to the challenges they present.

#### **Data Collection and Analysis**

Advancements in observational tools, such as high-resolution cameras, advanced radar systems, and satellite-based sensors, are crucial for collecting detailed data on UAPs. Accurate data collection and rigorous analysis are essential for validating theoretical propulsion mechanisms and identifying patterns or anomalies that may provide clues to the underlying technology.

#### **Experimental Research**

Experimental research plays a vital role in testing and refining theoretical concepts. By conducting laboratory experiments and simulations, scientists can explore the feasibility of various propulsion mechanisms and develop prototypes or models that demonstrate their potential. Collaboration with private industry and government agencies can also facilitate the development of advanced technologies that may one day enable practical applications of these theories.

#### **v. Evaluating UAP Evidence**

When assessing UAP videos and other evidence, it is important to consider multiple factors that can help determine their authenticity. We hope that by providing you with this information, you will gain a better understanding of what to look for in UAP videos and be better

equipped to distinguish between genuine phenomena and fabrications.

### **Consistency with Known Physics**

Authentic UAP videos should exhibit behavior consistent with known physical principles, such as conservation of momentum and energy. Any observed anomalies should be carefully analyzed to determine whether they can be explained by natural or man-made phenomena, or if they suggest the presence of advanced technology.

### **Corroborative Evidence**

Credible UAP sightings are often supported by multiple sources of evidence, such as radar data, eyewitness accounts, and sensor readings. The presence of corroborative evidence increases the likelihood that the observed phenomena are real and not the result of hoaxes or misidentifications.

### **Expert Analysis**

The analysis of UAP videos by experts in relevant fields, such as aerodynamics, physics, and video forensics, is essential for ensuring the accuracy and reliability of the evidence. Expert analysis can help identify potential sources of error or deception and provide a scientific basis for evaluating the claims.

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As we continue to explore the frontiers of science and technology, the mysteries of UAPs challenge us to expand our understanding of the universe and consider possibilities that were once relegated to the realm of science fiction. By embracing interdisciplinary collaboration, advancing our observational and experimental capabilities, and rigorously evaluating evidence, we can move closer to unraveling the secrets of these enigmatic phenomena.

We encourage you to remain open to new possibilities and to approach the study of UAPs with a sense of wonder, curiosity, and scientific rigor. In doing so, we may one day uncover the true nature of these phenomena and gain deeper insights into the cosmos and our place within it.

Prof. Dave Palachik  
National Director Emeritus  
MUFON Canada

# Abstract

This groundbreaking study presents compelling evidence that Unidentified Aerial Phenomena (UAP) utilize operational warp drive propulsion systems, based on detailed analyses of spatial distortions consistent with gravitational lensing effects. Building upon the foundational research of Dr. Miguel Alcubierre and subsequent theoretical developments, this book introduces innovative insights into the geometry and physics of micro-warp bubble configurations.

Through meticulous examination of high-quality photographic and video evidence, including notable cases such as the Aguadilla UAP event, the authors identify distinct gravitational lensing phenomena that strongly indicate localized spacetime curvature characteristic of warp fields. These findings were initially presented in the MUFON Journal following rigorous double-blind peer review by five independent scientists. Subsequently, the expanded theoretical sections underwent an additional round of double-blind review through a recognized UAP research organization, receiving comprehensive feedback that significantly strengthened the presented analysis.

The authors propose practical methodologies for repeatable observational testing, encouraging global scientific collaboration through structured Skywatch events. Clear guidelines for systematic data collection and analysis are outlined to bridge theoretical frameworks with empirical validation, ultimately aiming to advance aerospace propulsion technology and expand humanity's understanding of our technological potential and position in the cosmos.

Releasing our work in this book format allows us the freedom to write the book in a manor written for average people to understand. The math from the original paper is described for everyday people and the formulas are expanded upon and detailed in the appendix for those who want to dive into and review the calculations. The detailed



mathematical work contained within several excel spreadsheets will be free available for download from the website [www.true-experiences.ca](http://www.true-experiences.ca) sometime by summer of 2025 for those who are interested in reviewing Chad's work.

# Acknowledgments

We wish to thank the following people:

Jordan Wright, host of *the Angry Astronaut* podcast, for pointing the way to the first UAP videos in which Chad noticed gravitational lensing effects on background objects.

The astronomer Marc D’Antonio for reviewing Chad’s initial findings and giving us positive feedback, which gave the motivation to delve into the Alcubierre theory and expand on it once we learned and understood how the theory works.

Luis Elizondo for taking the brave stance that he took to let the world know the US government knew a lot more than it led the public to believe, and for giving us the *observables list*. Where possible, this book discusses the still unpublished Pentagon science theories of UAP propulsion as explained by Luis Elizondo in his recently published book *Imminent*.

## Writer's Bio

**Chad Wanless**, has worked as a mechanical designer since 1994. For the first five years, he worked for a high efficiency lighting manufacturer as a lighting designer. Among his various engineering tasks, he took a lighting engineering course with the Illumination Engineering Society of North America and was the lighting layout designer. He worked as the photometry lab technician optimizing lens and reflector designs and tested the very first holographic lens prototype. It is through this work experience that he learned lighting physics. Additionally, over his 30 years of experience as a designer, honing his special awareness skills in checking drawings and models, he further trained his eye to catch anything out of place or incorrect drawings and designs issues. These are key design skills for any experienced designer. If checkers miss something odd, off or wrong: something may not be buildable, may get built wrong causing field rework, or worse, one or more people may get **injured** by a bad design. It is this trained observational skill that allowed him to first spot something off in a video of a Saturn shaped object caught on camera by an airline passenger over South America.

**Dave Palachik**, is a Senior Electrical & Electronic Engineering Technologist who started his career as an IBM Canada computer engineer. Currently with over 40 years in engineering technology, David is a part-time College Professor and an Electronics Security Systems designer and manager. In this role he worked with and helped design IR camera systems. IR (Infra-red) systems are designed to go beyond the visible spectrum and bring objects to attention. Dave has been with MUFON Canada for more than fifteen years starting as a Filed Investigator and moving through to become the National Director in 2000. He has since moved on to investigating unique sightings throughout the world and with a team of fellow investigators searching for the truth and gathering information to accelerate disclosure.



# Disclaimer

The information presented in this book is solely the opinion of the authors and does not represent any opinion of past or current employer(s).

No information presented in this book was derived from classified materials supplied or disclosed to the authors. The scientific theories and related physics formulas discussed and presented in this book were derived, developed and expanded upon by the authors from the original Alcubierre warp field theory<sup>1</sup> and Micro warp bubble discovery papers<sup>2</sup>.

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<sup>1</sup> Classical and Quantum Gravity, “The warp drive: hyper-fast travel within general relativity”, May 1994, <http://dx.doi.org/10.1088/0264-9381/11/5/001>

<sup>2</sup> Eur. Phys. J. C, 81 7 (2021) 677, “Worldline numerics applied to custom Casimir geometry generates unanticipated intersection with Alcubierre warp metric”, Harold White, Jerry Vera, Arum Han, Alexander R. Bruccoli and Jonathan MacArthur, July 31, 2021, DOI: <https://doi.org/10.1140/epjc/s10052-021-09484-z>

educational and reference purposes. Credit for each image or graph has been listed as both a foot note and in the references section.

All other interior illustrations and graphs by the author Chad Wanless.

# 1 - Introduction

## Why "Hidden in Plain Sight"?

We chose the title **Hidden in Plain Sight** deliberately, as it reflects exactly what we believe to be the reality of the compelling evidence presented in this book. For more than seventy years, researchers and skeptics alike have debated fiercely over photographic records of unidentified aerial phenomena (UAP). These decades-old photographs—and particularly the more recent, decade-old 2013 Aguadilla UAP video—have sparked relentless controversy, fueling persistent questions: *Could these images have been faked? If so, how? And why can no one definitively explain what they show?*

Yet the greatest irony lies not in these heated debates, but in the overlooked truths plainly visible within the evidence itself. For decades, subtle but scientifically verifiable signatures of warp drive physics—such as gravitational lensing, localized spatial distortions, and distinctive vapor cones at the craft's leading edges—have been openly present within these images and videos. Because the scientific community lacked widespread awareness or theoretical context for recognizing these warp drive signatures, the clues remained unnoticed, misunderstood, or dismissed outright as elaborate hoaxes or inexplicable visual anomalies.

In other words, the definitive evidence that skeptics and researchers have passionately demanded was never truly hidden by secrecy or deception. Instead, it remained concealed solely by a lack of scientific comprehension—quietly embedded within these seventy-plus-year-old photos and clearly demonstrated in the ten-year-old Aguadilla footage. They were, quite literally, *hidden in plain sight*.

Today, armed with advanced theoretical insights, rigorous peer-reviewed analyses, and contemporary scientific methodologies, we

finally have the necessary tools and understanding to interpret precisely what we are seeing. This book not only uncovers remarkable evidence; it also demonstrates how genuine scientific breakthroughs can transform confusion into clarity.

Thus, *Hidden in Plain Sight* represents our mission to bridge perception and comprehension, making visible and comprehensible what has always awaited discovery—right before our eyes.

## **Origins of this Book**

This book examines multiple UAP videos and leverages the well-established astronomical phenomenon of gravitational lensing to propose a new method for identifying UAPs' visually observable signatures under specific conditions. It highlights a unique, subluminal spatial warping propulsion mechanism, suggesting a significant advancement in identifying UAPs as manufactured objects under intelligent control.

Parts of sections 2, thought 7 and 10 were previously published in two *MUFON Journal* monthly distributions #675 and #676 as articles titled “*Evidence of Operational Warp Drive Propulsion Found in Uap Videos*” Parts 1 and 2, dated July and August 2024. These articles presented a condensed discussion of the material, and this book reviews and significantly expands upon the original content. The part 2 article begins by stating:

*“this MUFON Journal article continues a summary of a longer paper on the potential evidence of gravitational lensing noticed surrounding UAPs in multiple videos. This article is being released before the final paper has been completed to take advantage of the upcoming various summer sky-watch events.”*<sup>3</sup>

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<sup>3</sup> Chad Wanless, *MUFON Journal* 2024 #675 & #676, *Evidence of Operational Warp Drive Propulsion Found in UAP Videos: Part 1 & 2*



Building upon Luis Elizondo's classified scientific theories discussed in his book *Imminent*, this book independently analyzes subtle, hard-to-detect UAP visual signature clues. These signatures align with descriptions from the report presented to congress called the "Immaculate Constellation" which notes:

*“UAP characteristics that are difficult or impossible to observe with the human eye alone. Subtle atmospheric effects associated with UAPs are also visible through the sensors employed by the US military and intelligence agencies”<sup>4</sup>*

While the origins of these UAPs remain unknown—whether piloted or controlled by humans, non-human intelligences (NHI), or entities from beneath Earth's oceans, crusts, another star system, or dimension-this book does not speculate on their source. Instead, it focuses on the scientific investigation of their propulsion systems. The pressing question is not *how they arrived here*, but *what mechanisms enable their extraordinary propulsion*. The study analyzes theoretical Alcubierre warp drive physics, emphasizing its ongoing refinement by scientists worldwide and the challenges in achieving practical implementation.

This book aims to spark critical discussion on whether "someone" has already engineered a fully operational, subluminal Alcubierre warp drive. For simplicity, the book refers to the pilots, occupants, or remote operators of UAPs as “Occupants” or “Remote Operators” throughout.

## **Background and Context**

The interest in Unidentified Aerial Phenomena (UAPs) has surged in recent years, driven by a series of high-profile leaks, government disclosures, and scientific studies. UAPs, often referred to as UFOs

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<sup>4</sup> DailyMail.com, October 9, 2024, Pentagon's secret UFO data retrieval program 'Immaculate Constellation' revealed for first time in new whistleblower report,

(Unidentified Flying Objects), have been the subject of fascination and speculation for decades. The challenge lies in distinguishing genuine UAPs from misidentified natural or human-made phenomena.

The phenomenon of gravitational lensing, where light bends around a massive object, provides a unique avenue for UAP identification. This well-documented astronomical effect has been observed in the context of stars and galaxies. By applying similar principles to UAPs, researchers can identify visual distortions or anomalies that suggest the presence of an object with significant mass and displaying a significant spatial distortion created by unique Alcubierre propulsion capabilities.

Dr. Garry Nolan, a distinguished professor at Stanford University, has ventured into the scientific examination of Unidentified Anomalous Phenomena (UAP). His work includes the analysis of anomalous materials purportedly linked to UAP encounters. In a 2021 interview, Dr. Nolan discussed his involvement in this research, highlighting the need for rigorous scientific inquiry into these materials.<sup>5</sup>

In the spirit of advancing UAP research, this book presents preliminary data and hypotheses intended to serve as a foundation for further scientific exploration. We acknowledge that the findings herein are initial observations and subject to refinement and validation through subsequent studies. Our objective is to encourage the research community to build upon this work, employing rigorous methodologies and advanced instrumentation.

To facilitate this progression, we have included an open letter proposing a detailed scientific methodology for conducting

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<sup>5</sup> Vice, “Stanford Professor Garry Nolan Is Analyzing Anomalous Materials From UFO Crashes”, Thobey Campion, December 10, 2021, <https://www.vice.com/en/article/stanford-professor-garry-nolan-analyzing-anomalous-materials-from-ufo-crashes/>

repeatable research. This encompasses guidelines for organizing Skywatch events, selecting appropriate scientific instruments, and establishing standardized protocols for data collection and analysis. By adopting a systematic approach, we aim to contribute to a more comprehensive understanding of UAP and foster collaboration within the scientific community.

We invite researchers to consider this work as a starting point, encouraging critical evaluation, replication of studies, and the development of innovative research strategies. Through collective efforts, we can advance the scientific investigation of UAP and unravel the mysteries surrounding these phenomena.

## 2 - Gravitational Lensing Identifying a New UAP Signature

Gravitational lensing occurs when a massive object, such as a star or galaxy, bends the light of objects behind it. This effect can create multiple images, magnify objects, or even create rings of light, known as Einstein rings. In the context of UAPs, gravitational lensing could manifest as subtle distortions or anomalies in video footage, suggesting the presence of an object with significant mass.

To identify these distortions, researchers analyze UAP videos frame by frame, looking for consistent patterns that align with gravitational lensing. This requires high-resolution footage and advanced image processing techniques. The challenge lies in distinguishing genuine lensing effects from camera artifacts or atmospheric disturbances.

### Methodology

The methodology for identifying gravitational lensing in UAP videos involves several steps:

1. **Video Collection**: Researchers collect high-resolution UAP videos from credible sources, such as military footage or reputable civilian observers.
2. **Image Processing**: Advanced image processing techniques, such as Fourier analysis and machine learning algorithms, are used to enhance video quality and identify potential lensing effects.
3. **Pattern Recognition**: Researchers look for consistent patterns in the video that align with gravitational lensing, such as light distortion, magnification, or the presence of multiple images.
4. **Validation**: Identified patterns are cross-referenced with known gravitational lensing effects to validate their authenticity.

### Case Studies

Several notable UAP videos have been analyzed using this methodology, yielding promising results.

#### **\*\*Case Study 1: The Tic-Tac UAP\*\***

One of the most famous UAP videos is the Tic-Tac UAP, captured by the US Navy in 2004. The video shows a white, oblong object moving at incredible speeds and performing maneuvers that defy conventional physics. Analysis of the video revealed subtle light distortions around the object, consistent with gravitational lensing.

#### **\*\*Case Study 2: The Gimbal UAP\*\***

Another prominent UAP video is the Gimbal UAP, also captured by the US Navy. The video shows a rotating object emitting heat and performing erratic movements. Image processing and pattern recognition techniques revealed magnification effects around the object, suggesting the presence of a massive, lensing-inducing body.

In this paper we will cover other military & government confirmed sightings to show the consistent evidence of operational warp drive propulsion in UAPs.

### **Subluminal Spatial Warping Propulsion**

One of the most intriguing aspects of UAPs is their apparent ability to move at incredible speeds and perform maneuvers that defy conventional physics. This paper proposes that UAPs utilize a subluminal spatial warping propulsion mechanism, which allows them to bend space-time around them, achieving extraordinary speeds without violating the laws of physics.

This propulsion mechanism is akin to the concept of a warp drive, popularized in science fiction. However, unlike fictional warp drives that exceed the speed of light, subluminal spatial warping operates within the constraints of relativity, bending space-time to create efficient, high-speed travel.

## **Mechanism Details**

The proposed subluminal spatial warping propulsion mechanism involves several key components:

1. **Field Generator**: A device that generates a localized field capable of bending space-time.
2. **Energy Source**: A highly efficient energy source, likely harnessing advanced nuclear or zero-point energy, to power the field generator.
3. **Control System**: A sophisticated control system that modulates the field, allowing for precise navigation and maneuvering.

## **Theoretical Foundation**

The theoretical foundation for subluminal spatial warping propulsion draws on principles from general relativity and advanced quantum mechanics. By creating a localized region of warped space-time, UAPs can achieve rapid acceleration and deceleration, sharp turns, and other extraordinary maneuvers.

## **Implications for UAP Identification**

The subluminal spatial warping propulsion mechanism has significant implications for UAP identification. By understanding the physical principles behind UAP propulsion, researchers can develop more effective methods for detecting and analyzing these objects. For example, the presence of gravitational lensing effects in UAP videos can be used as an indicator of advanced propulsion technology.

# 3 - A Review of Warp Drives Alcubierre and Related Research

In 1994, a new and radical theory was proposed by a physicist named Miguel Alcubierre.<sup>2</sup> His groundbreaking theory discussed the invention of the warp drive. What was once considered science fiction has now become a whole new field of research. Others expanded and refined his work, including NASA's Eagleworks laboratory, Alexey Bobrick and Gianni Martire, whose recent paper *Introducing Physical Warp Drives*<sup>6</sup> resolves many of the original issues. The most recent warp drive paper entitled, *Constant velocity physical warp drive solution*<sup>7</sup> discusses a refinement of the Alcubierre theory allowing a "constant-velocity subluminal warp drive that satisfies all of the energy conditions." Lead author Jared Fuchs stated, "This study changes the conversation about warp drives.... By demonstrating a first-of-its-kind model<sup>8</sup>, we've shown that warp drives might not be relegated to science fiction."<sup>9</sup>

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<sup>6</sup> Cornell University, "Introducing Physical Warp Drives", Alexey Bobrick & Gianni Martire, <https://arxiv.org/abs/2102.06824v2>

<sup>7</sup> IOPScience, "Classical and Quantum Gravity", "Constant velocity physical warp drive solution", Jared Fuchs, Christopher Helmerich, Alexey Bobrick, Luke Sellers, Brandon Melcher and Gianni Martire, April 2024

<sup>8</sup> Space.com, "'Warp drives' may actually be possible someday, new study suggests", by Mike Wall, May 7, 2024, <https://www.space.com/warp-drive-possibilities-positive-energy>

<sup>9</sup> Mike Wall, . 2024. *'Warp drives' may actually be possible someday, new study suggests*. May 7. <https://www.space.com/warp-drive-possibilities-positive-energy>

## Enclosing the Propulsion Ring

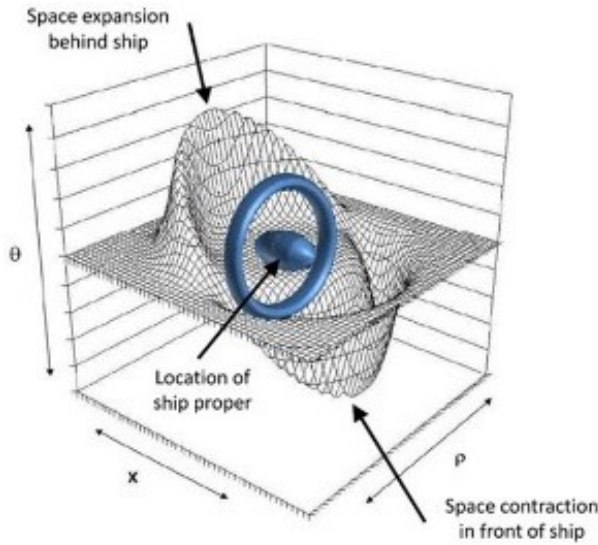


Figure 3-1 – Alcubierre Warp Drive<sup>10</sup>

With both theories, a ring is a common feature, either a warp ring or a particle accelerator ring.

The Alcubierre drive consists of a warp ring which expands space behind or below the craft and contracts space in front of or above the craft. This is the definition of the warp bubble concept, which is how one can move through space/time without chemical propulsion. The direct center of the ring contains a "flat" uncurved elliptical segment of space/time safe for pilots and passengers to occupy.

Correction, the center will contain a relatively “flat” segment of a spacetime. The center of the spatial curves is still required to be curved to create gravitational acceleration.

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<sup>10</sup> Warp Drive Alcubierre metric - a ( inaccurate ) solution of Einstein Field Equation, <http://zamandayolculuk.com/html-1/warpdrivee.htm>



The resulting passenger compartment, by happenstance, resembles an ellipsoid (football) shape. The space/time curvature causes the craft, and its occupants contained within to simultaneously "*fall*" forward (or up) without feeling any crushing acceleration G forces.

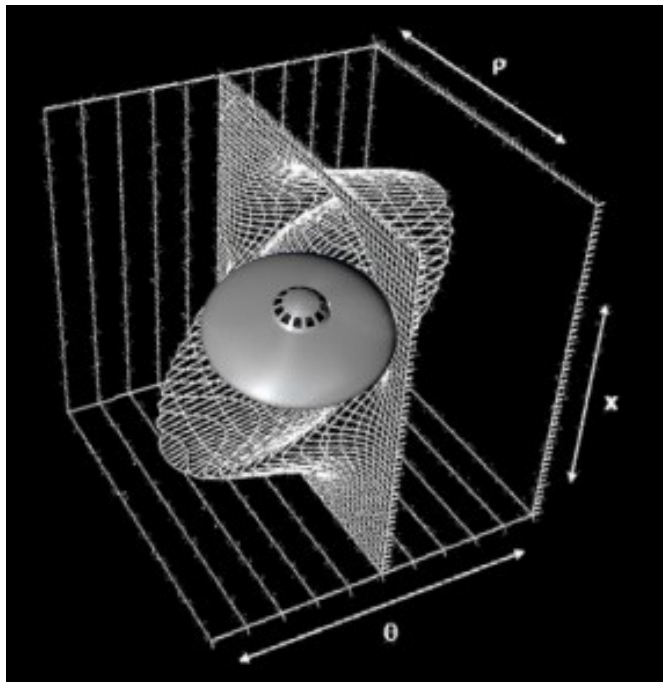


Figure 3-2 – Enclosed Alcubierre Warp Drive<sup>11</sup>

If one takes the original main functional components of the Alcubierre drive technology, the warp ring with the crew compartment located at the center of the ring, they must be physically connected. How are they to be connected? With spokes or spires? Would there be room for an engineering compartment? Where would it fit? Instead, imagine enclosing the ring and crew compartment using a disc shape to maximize cargo and engineering spaces. All of a sudden, you have a classic flying saucer. (Wanless, MUFON Journal 2024)

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<sup>11</sup> "Warp Drive Alcubierre metric - a ( inaccurate ) solution of Einstein Field Equation", <http://zamandayolculuk.com/html-1/warpdrivee.htm>

It might be more than a coincidence that the most commonly reported UAP shape is a metallic disc with a substantial central bulge.

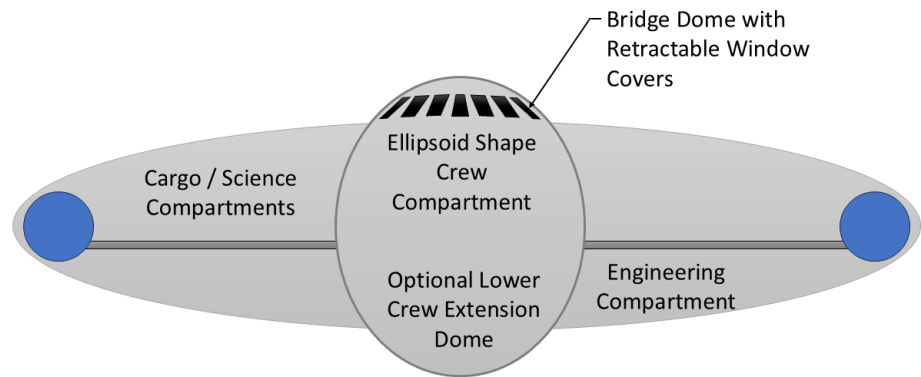


Figure 3-3 - Fully Enclosed Craft Maximizing Cargo and Engineering Compartments

The original Alcubierre paper calculated that an enormous power source the size of Jupiter would be required to power a drive at superluminal speeds. This means when you look at the UAPs people are seeing, how much power is needed to travel at the recorded speeds of up to 13,000 mph? It is possible that some type of small nuclear liquid metal-cooled reactor could provide sufficient power required by a subluminal Alcubierre type drive or similar to it. Why the suggestion of liquid metal?

In the context of Unidentified Aerial Phenomena (UAPs), there have been reports of liquid metals being expelled from disc-shaped objects. Dr. Garry Nolan, a professor at Stanford University, has analyzed materials purportedly recovered from such events. In one instance, a luminous red mass was reported to have fallen in Council Bluffs, Iowa, in 1977, leaving behind molten metal. Analysis revealed that the metal was primarily iron with isotopically ordinary elements, albeit atypically mixed. While the exact origin remains uncertain, one hypothesis suggests that such materials could be discarded fuel from advanced aerial vehicles.

In advanced nuclear systems, particularly those utilizing liquid metal coolants like lead-lithium alloys, maintaining the appropriate composition of the coolant is crucial. These coolants not only manage heat but also participate in breeding tritium for fusion reactions. However, prolonged operation can lead to the accumulation of heavier isotopes or contaminants, potentially destabilizing the reactor system. In such scenarios, it might be advantageous to expel the unstable liquid metal to prevent reactor instability or failure. This expulsion could account for the anomalous materials discovered in various locations, as studied by researchers like Dr. Nolan.

Efficient thermal management is crucial for the safe and effective operation of nuclear reactors. Molten salts and liquid metals are prominent candidates for heat capture due to their excellent thermal properties.

- **Molten Salt Coolants:** Molten salts, such as a mixture of lithium fluoride and beryllium fluoride (FLiBe), have been extensively studied for their stability at high temperatures and low vapor pressures. Their high specific heat capacity allows for efficient heat transfer, which is essential in maintaining reactor integrity and performance.
- **Liquid Metal Coolants:** Alloys like lead-lithium (PbLi) serve multiple functions in fusion reactors. They act as effective coolants due to their high thermal conductivity and also play a role in breeding tritium, a vital fuel component for fusion reactions. The interaction of lithium with neutron flux produces tritium, thereby sustaining the fusion fuel cycle. Additionally, lead provides radiation shielding, enhancing the safety of the reactor system.

In contrast traditional water-based cooling systems present challenges in enclosed environments like disc-shaped craft:

- Corrosion and Leakage: Water can induce corrosion in metal components, leading to potential leaks. In a closed-loop system, dissolved oxygen accelerates corrosion, which can result in perforation and coolant leakage.<sup>12</sup>
- Catastrophic Failure Risks: A breach in a water-based cooling system could lead to rapid steam generation, increasing internal pressure and posing significant safety hazards.

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<sup>12</sup> “Avoiding Corrosion in Liquid Cooling Systems”, May 20, 2022, <https://www.boydcorp.com/blog/avoiding-galvanic-corrosion.html>

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